

Fig. 1

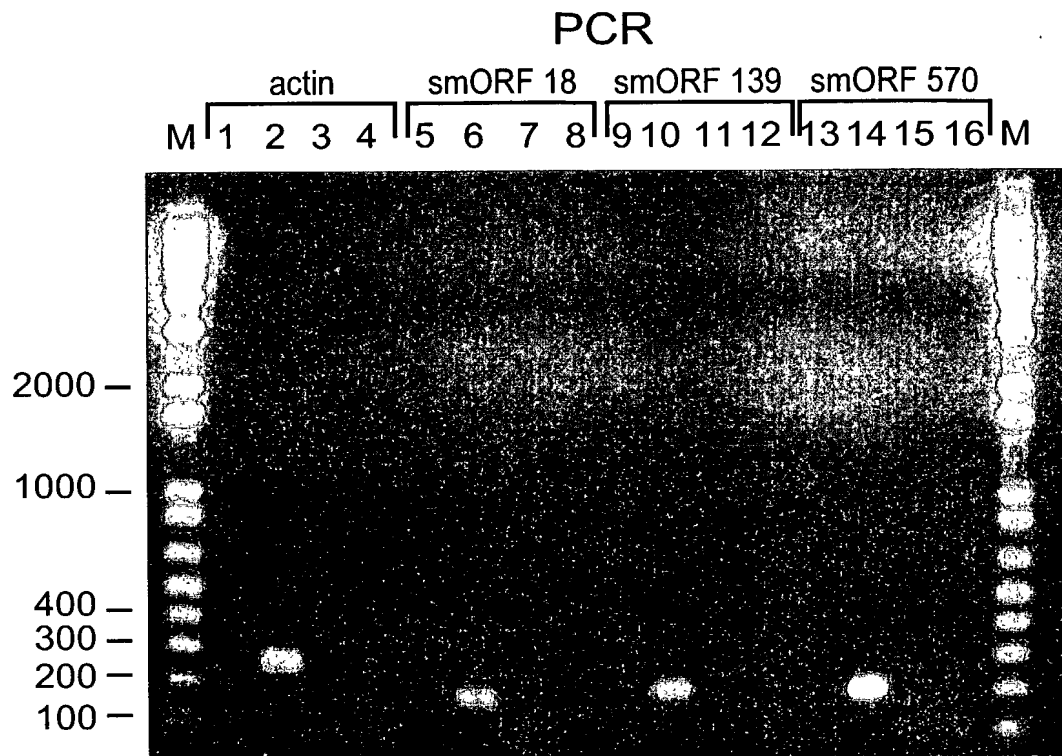


Fig. 2A

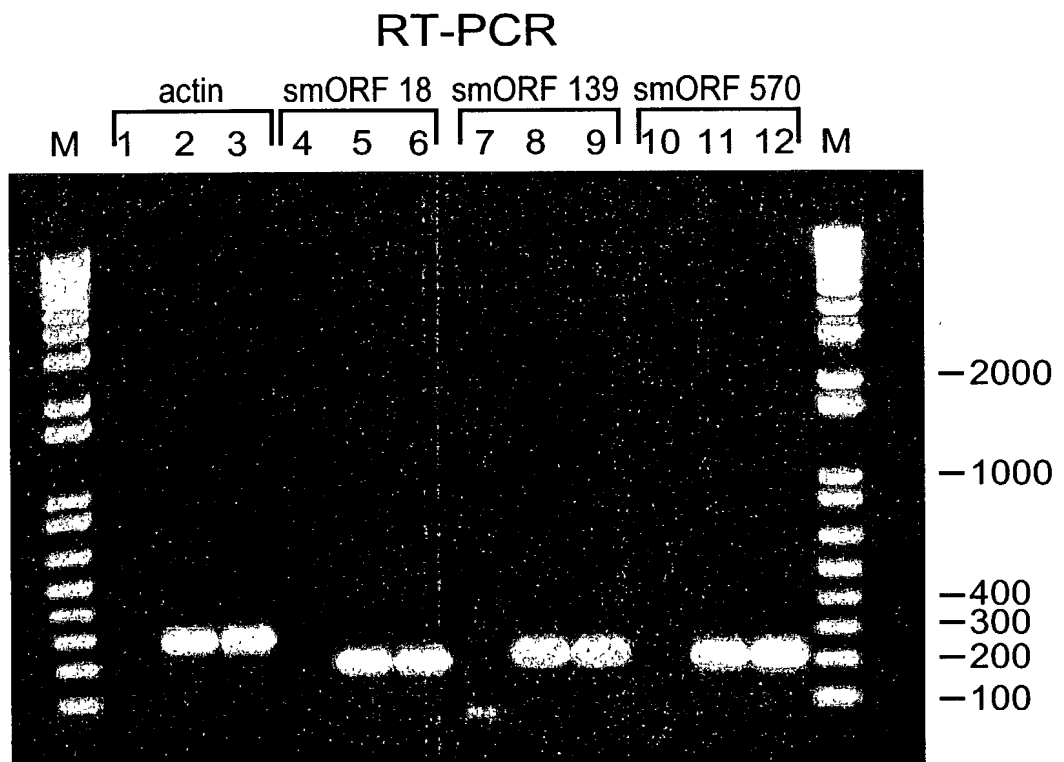


Fig. 2B

# Two step orientation-specific RT-PCR

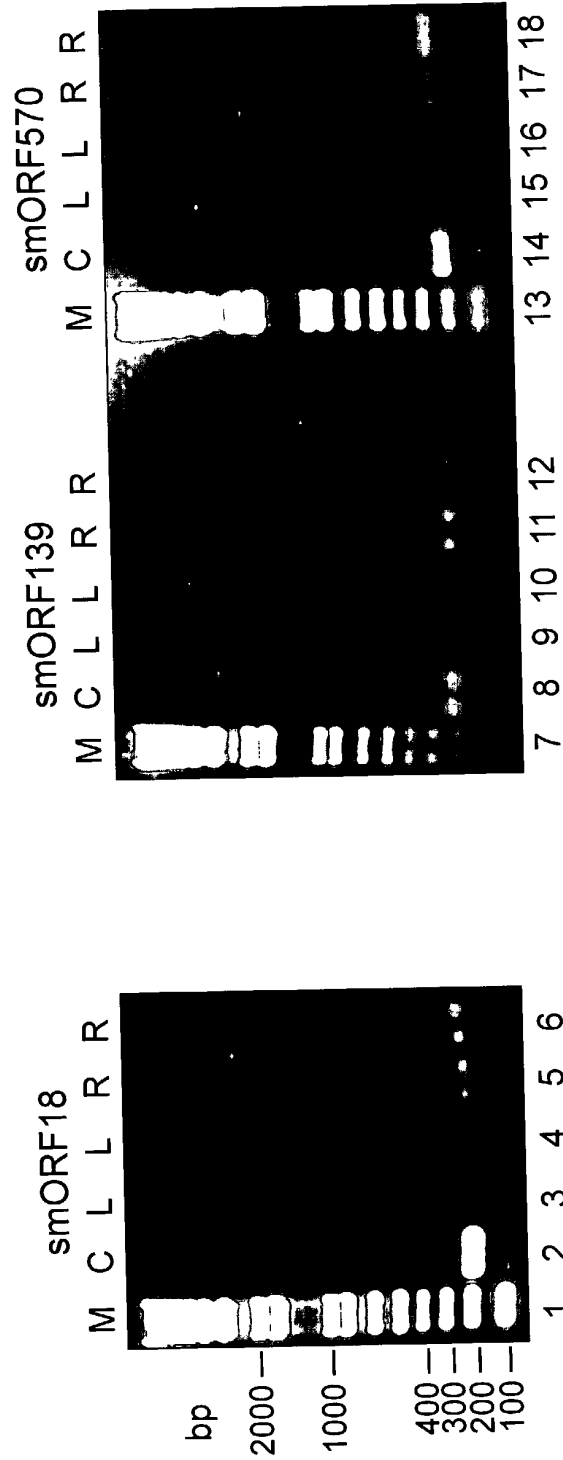
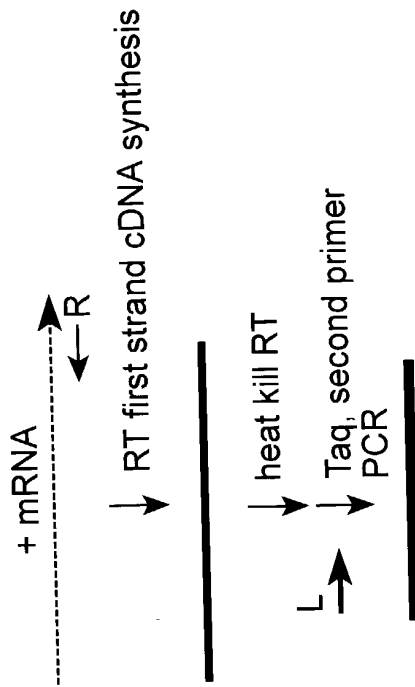
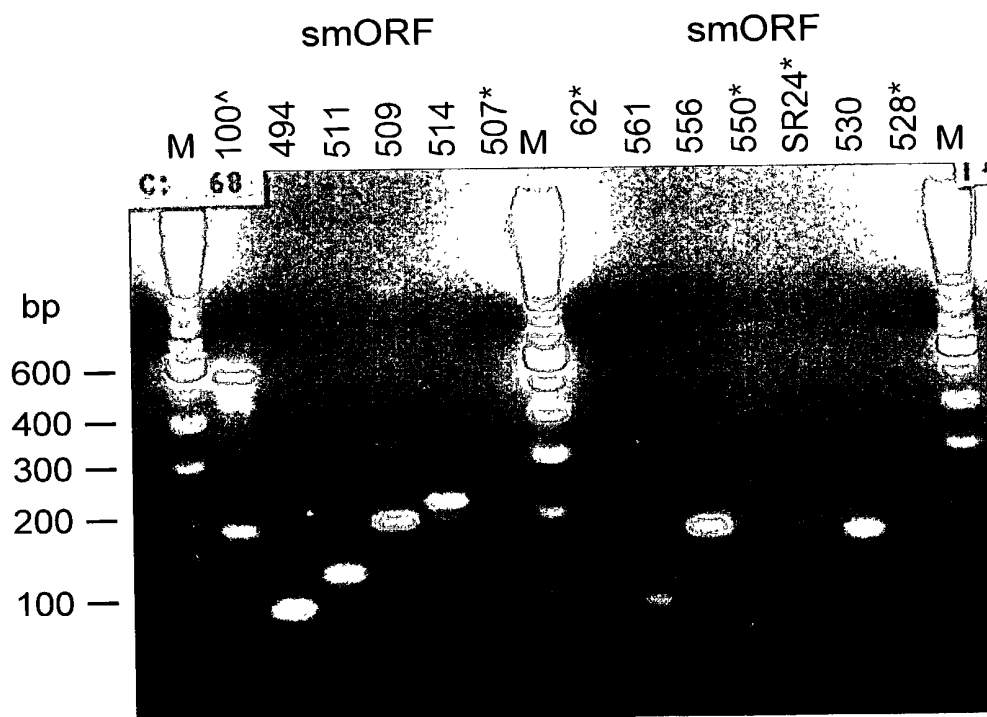
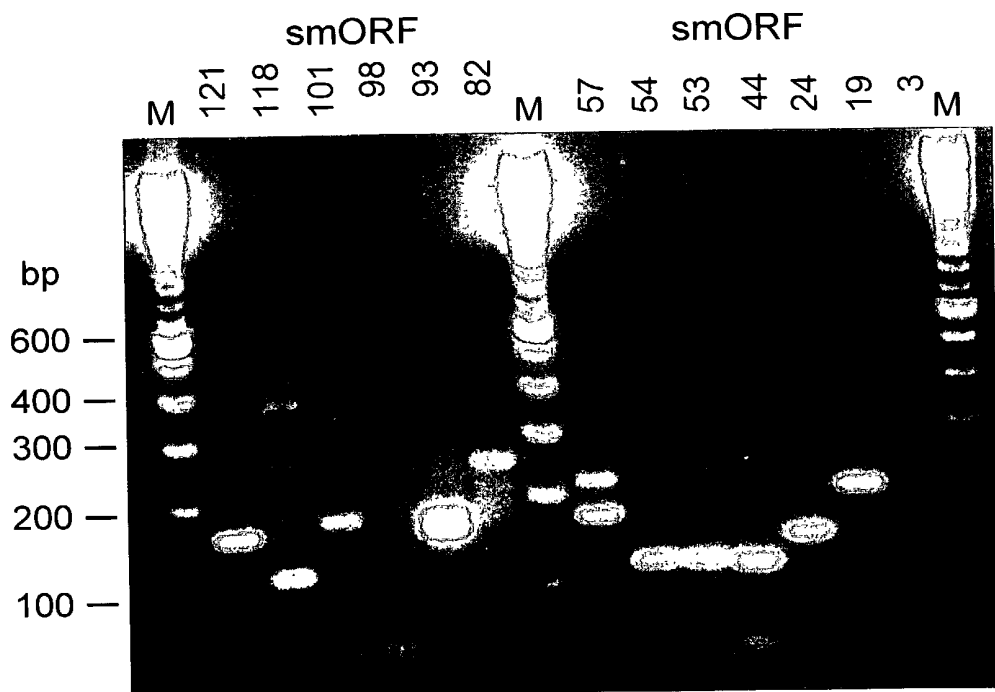


Fig. 2C

Fig. 2D



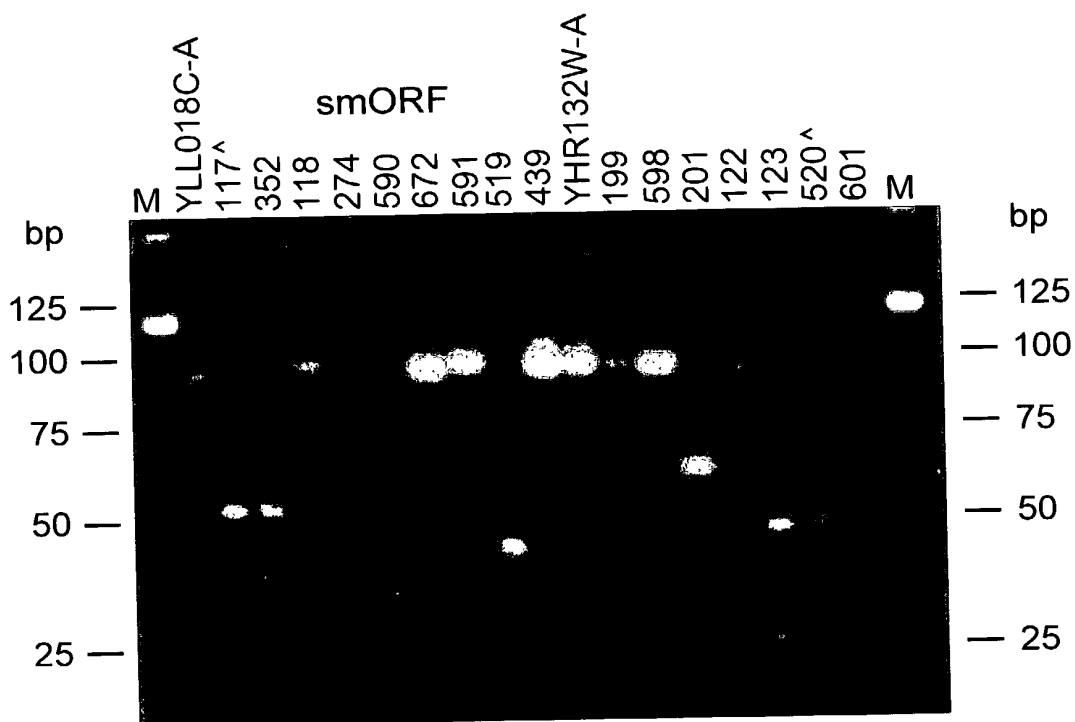


Fig. 2E

smORF18

MSI---YHDEVEIEDFEYDEEEEMVYYPCCGDRFQISKEELIEGEEVATCPSCSLVIRVYDPEMFKAEEDEE--SALNEKLGDLKLEKN  
MAV---FHDEVEIEDFOYDEDESETYFYPCPCGDNFSITKEDLENGEDVATCPSCSLIRVYDKQFVCGETVP--APS---ANKELVKC  
MSV---FHDEVEIEDFEDEEKDWHYPCPCGDRFEIIPREMLEMGEDVAQCPSCSLIRVYDPEDFVKLETIS--TSK---PIAEPV--  
MS---FYDEIELEDFTFDAGTNLYTFPCPCGDRFEISLEDQLGEDVARCPSCSLIRVYDEDEFEFMEVDNDA--STA---PIIIAA--  
MS---T-YDEIEIEDMTFEPENQMFTYPCPCGDRFQIYLDMMFEGEKVAVCPSCSLMIDVFDKEDLAEYEEAGIHPPPE--PIAAAA--  
ME---TIYDEIEIEDFTDPVQOIFQYPCPCGDRFAISLYDMQEGEDIAVCPSCSLMVKVIFEPEDELEEYLEG-----  
MADEALSIYDEIEIEDMTFDPNLQIYHYPCPCGDRFEIAIDDLRDGEDIAVCPSCSLMIRVIFEVSDDLPKDGNQP--APGA--VSVQA--  
MADEALSIYDEIEIEDMTFDANLQIYHYPCPCGDRFEIAIDDLRYGEDIAVCPSCSLMIKIVIFDQSDLPKEEKKKE--TEG---VSVKA--

smORF139

MPKRLSGLQKEVLLHYRASIRTAHTKPKENQVNFVNIHEEFGKYRNLPKQDFTTIEHLLRVGNKKIATFSHPELTNIH--  
MAP--LSGLQRDVLSLYRKQIRMVKFKPFDHFWNFEHEEFAKYQHLKQFNTIEYLLRNGHRKLEMYLNPQLKDIH--  
MAR--LSGLQREVLISLYRKGLREIRKKPSETRGNFKAYTRAEPKKNMSVSKDFAIEYLLRKGNRQLEMYSSPGIRNIQ--  
MA--LSGLQROVLIHFYRRGLHAAKAKEQOPYNERMMAFWHQEFERKNOTISKRPDFFYIEHLLRVGQRQYEAYSREPEVKDIHFS

smORF570

MSALFNFRSLLQVLELLLICTSCSYVHGQWPSLLDRYKNHEVLGAFWKMARVGERASPYVSLACHLMAIS--QFNS--  
KPSISPTNALKSALFNFSLLQVLELLLICTCTYVHSTAPAILDNRK--SGILSVFWKFARIGERLSPYVALGCFIMAFN--TLSS--  
MSAIFNFQSLLTVLELLLICTCAYIRSLAPSLDRNK--TGLLGIFWKCARIGERKSPYVAVCCIVMAFS--ILFIQ--  
MSAIFNFQSLLTVLELLLICTCAYIRSLAPSLDRNK--TGLLGIFWKCARIGERKSPYVAVCCIVMAFS--ILFIQ--  
MSAIFNFQSLLTVLELLLICTCAYIRSLAPSLDRNK--TGLLGIFWKCARIGERKSPYVAVCCIVMAFS--ILFIQ--  
MLPSALFNFSLLSVMLELLLICTCAYIRSLFSPSLDRNK--TGFMGTFWKLCARIGERKSPWVCAACCLIMAF--VLFWS--  
MSQSALFNFSLLLVFLELLLICTSTYAHSIMPGIMDRNQ--RGFGFWKCARIGERLSPYVSLCCHLMAVSTPRFYVILLSNAY

Fig. 3

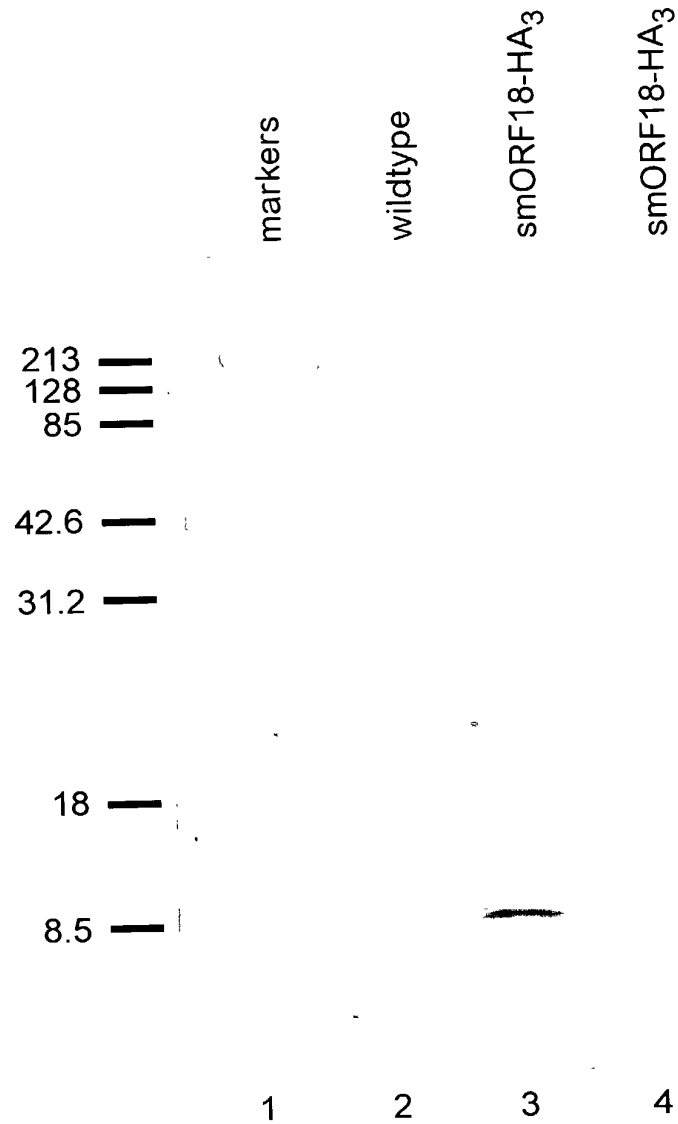
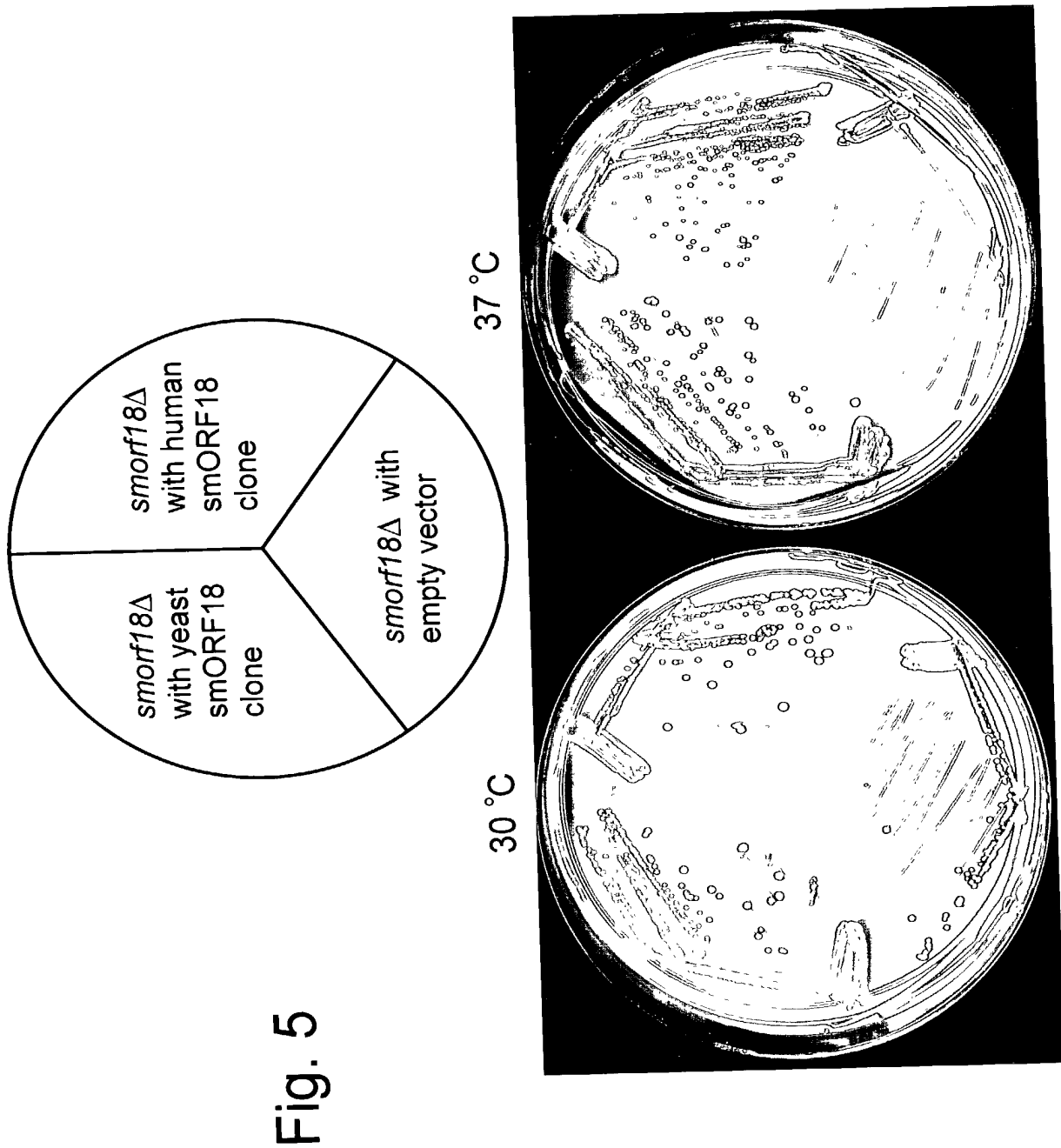


Fig. 4





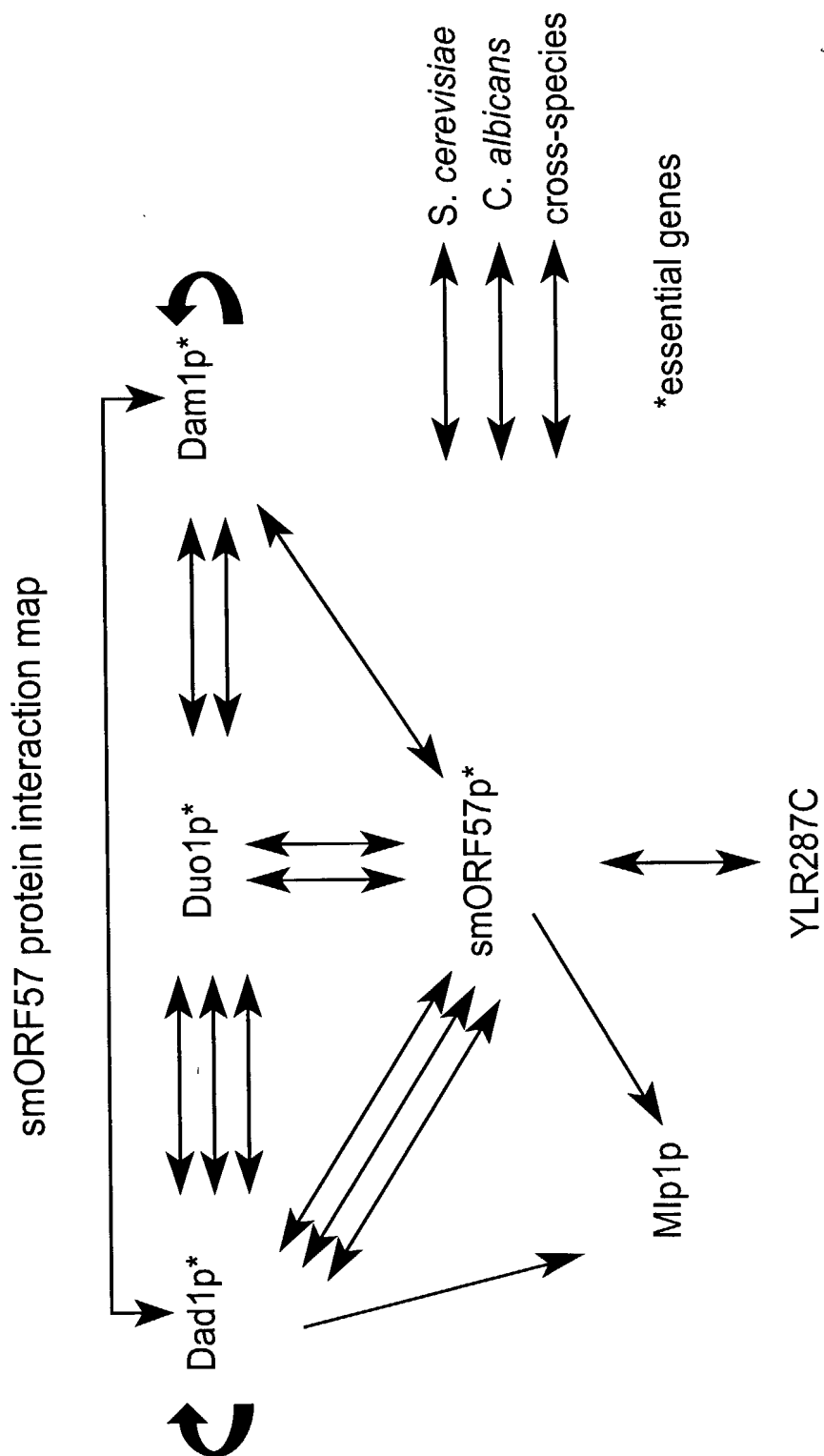


FIG. 6